

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450573

Luminaire Tested: **GALN-SA1B-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

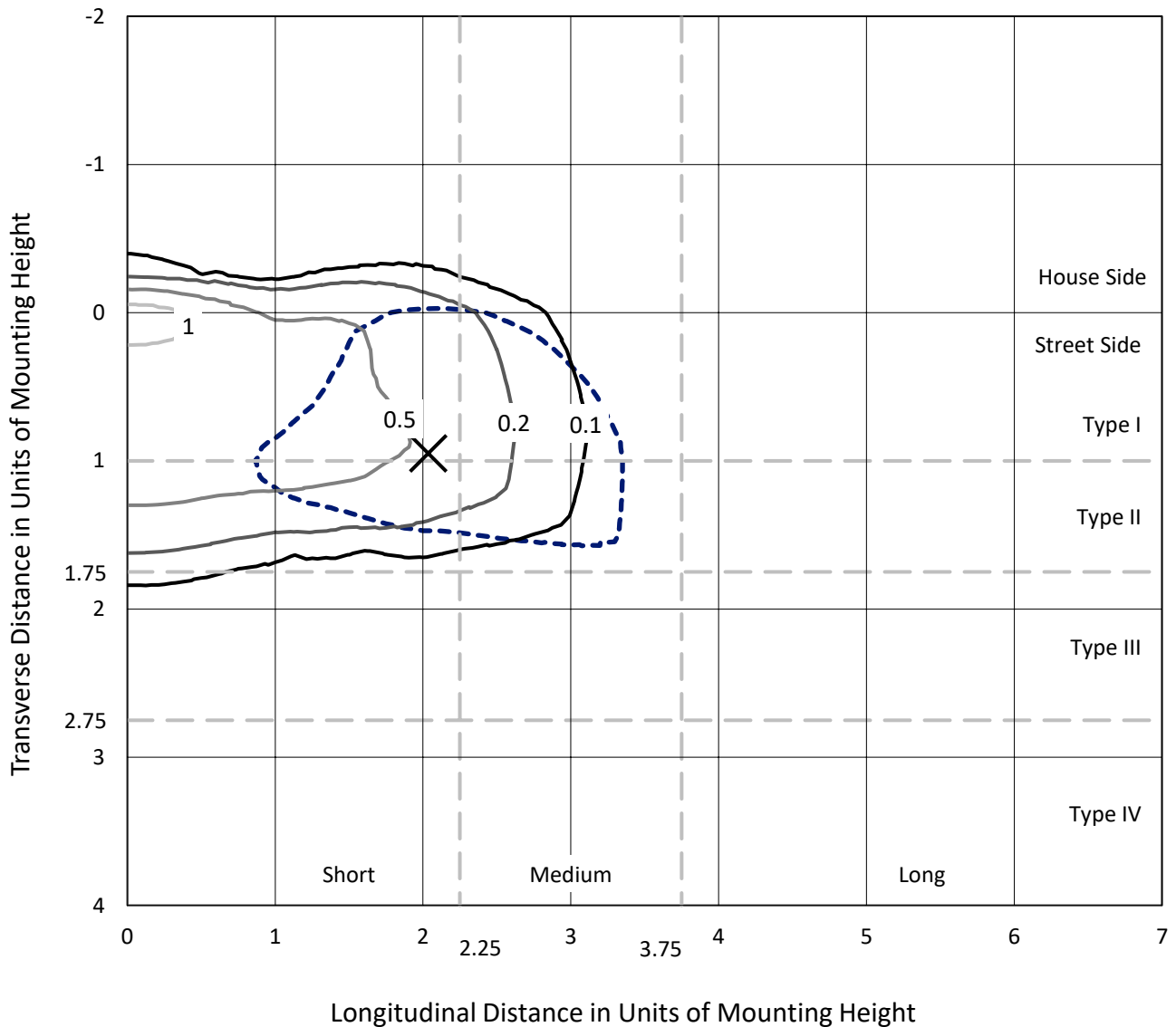
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

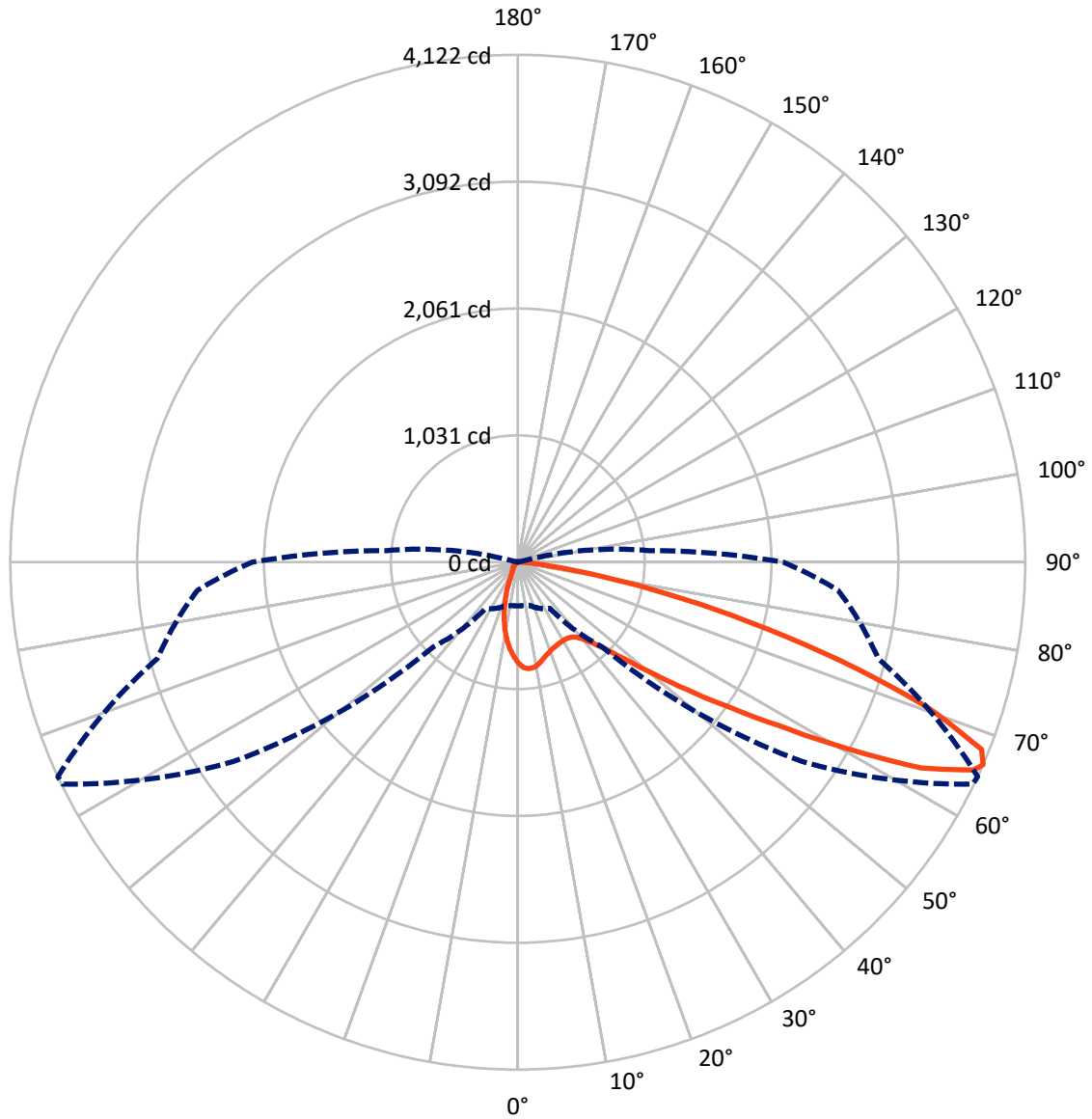
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	358.2	0.0	358.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3105.8	0.0	3105.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	3464.0	0.0	3464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.9
10°-20°	146.4	4.2
20°-30°	209.7	6.1
30°-40°	306.3	8.8
40°-50°	513.6	14.8
50°-60°	857.0	24.7
60°-70°	909.7	26.3
70°-80°	412.0	11.9
80°-90°	42.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3464.0	100.0
0°-180°	3464.0	100.0

Coefficient of Utilization



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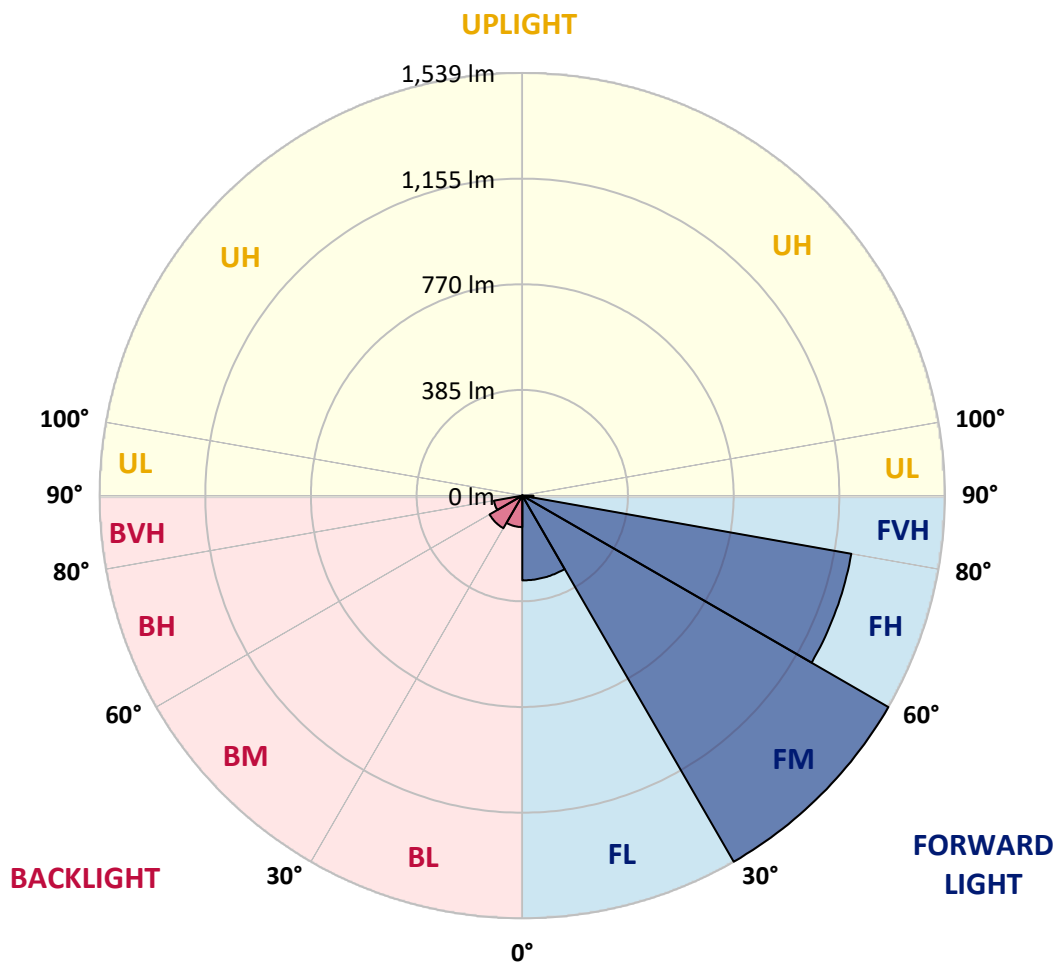
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.7	8.9			
FM	(30°-60°)	1539.5	44.4			
FH	(60°-80°)	1216.8	35.1			G1/1800
FVH	(80°-90°)	40.8	1.2			G1/100
BL	(0°-30°)	114.6	3.3	B1/500		
BM	(30°-60°)	137.4	4.0	B0/220		
BH	(60°-80°)	104.9	3.0	B0/110		G0/110
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	865.7	866.6	867.8	869.4	870.6	867.1	862.2	856.5	855.4	843.4	828.9
5°	819.3	820.7	831.0	836.6	849.3	860.7	868.0	868.9	868.5	857.2	834.1
7.5°	753.4	757.3	767.4	777.2	800.9	822.6	848.3	866.4	867.5	864.5	835.7
10°	699.8	702.4	707.5	726.9	746.6	779.8	815.8	849.8	852.6	864.7	834.3
12.5°	657.9	661.6	668.0	682.9	706.6	737.9	778.9	824.5	830.3	860.3	830.3
15°	628.7	630.5	636.8	651.6	674.5	703.5	744.9	798.0	803.2	854.4	829.6
17.5°	614.9	617.0	621.4	633.1	652.1	679.0	719.4	776.8	783.3	850.7	832.2
20°	618.6	620.5	620.7	626.8	639.7	662.3	700.7	756.9	765.3	848.3	836.4
22.5°	639.9	640.1	637.3	634.5	639.0	655.3	689.3	744.2	752.9	847.9	841.3
25°	671.7	672.4	667.7	657.9	649.0	657.4	686.7	736.0	743.8	846.7	844.4
27.5°	715.7	715.5	714.1	697.7	672.4	666.8	688.8	731.6	738.2	843.4	845.5
30°	777.2	775.4	772.3	753.8	715.2	689.5	697.7	728.8	734.9	838.8	842.5
32.5°	837.8	844.8	844.4	826.8	778.6	730.0	716.2	732.5	737.0	835.7	838.1
35°	908.5	908.2	926.3	919.7	863.3	781.7	747.7	744.9	748.4	837.8	835.9
37.5°	974.0	980.1	1008.1	1014.9	963.5	854.7	792.4	771.6	772.8	852.1	841.1
40°	1055.6	1067.3	1109.2	1131.9	1086.5	963.0	858.4	820.5	820.7	887.2	860.5
42.5°	1160.9	1179.4	1218.5	1256.4	1232.0	1091.2	957.4	897.9	897.5	949.0	905.0
45°	1288.9	1301.8	1346.2	1406.3	1390.9	1270.2	1101.5	1018.0	1011.9	1050.3	983.8
47.5°	1399.3	1416.9	1462.0	1530.6	1600.8	1488.7	1273.7	1182.9	1178.9	1211.5	1119.0
50°	1447.5	1463.0	1510.5	1606.6	1776.7	1775.5	1530.1	1423.7	1416.9	1434.4	1328.2
52.5°	1394.7	1409.2	1457.1	1576.9	1859.5	2125.1	1901.6	1725.7	1717.5	1695.1	1578.1
55°	1213.6	1225.5	1296.4	1434.0	1827.7	2358.1	2413.6	2098.9	2067.1	1979.8	1860.9
57.5°	966.3	960.2	1004.2	1164.0	1641.0	2436.3	2939.0	2563.8	2506.9	2225.9	2100.3
60°	669.6	688.3	706.1	811.4	1233.9	2300.8	3265.9	3148.2	3073.3	2468.1	2329.6
62.5°	492.3	504.7	516.4	565.0	775.8	1837.1	3323.7	3748.5	3682.1	2725.2	2548.3
65°	389.3	390.2	394.9	442.9	511.2	1194.6	3046.0	4087.1	4070.0	2972.7	2637.0
66°	354.7	354.9	362.2	413.6	458.8	972.8	2823.5	4112.8	4122.2	3032.2	2611.0
67.5°	310.0	309.1	319.6	371.8	417.9	701.4	2425.3	4008.5	4063.9	3077.8	2517.7
70°	240.3	239.1	252.0	311.9	384.9	467.9	1612.0	3441.8	3531.2	2984.4	2227.6
72.5°	160.0	161.0	183.0	246.1	367.3	412.0	969.8	2618.3	2744.6	2464.6	1752.4
75°	93.4	95.0	120.0	183.0	318.9	392.8	548.9	1867.0	1947.7	1701.8	1091.7
77.5°	48.9	49.6	67.1	120.7	244.5	364.7	365.7	1192.7	1230.6	827.1	432.1
80°	26.0	25.3	36.0	72.8	168.2	320.3	296.7	631.5	656.5	245.7	109.3
82.5°	9.8	10.8	19.2	47.7	99.4	230.0	255.5	279.1	270.5	54.0	45.9
85°	1.9	2.3	8.2	28.3	50.1	96.2	188.3	136.9	126.8	20.4	26.4
87.5°	0.2	0.5	2.3	6.8	7.3	32.5	55.7	37.9	32.8	7.5	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	821.9	815.6	794.5	773.7	752.4	733.2	720.1	698.8	693.5	685.7	681.3
5°	820.3	805.5	765.1	720.8	679.7	635.2	601.3	568.5	551.0	542.1	538.8
7.5°	815.6	792.2	729.0	659.8	593.8	527.4	469.6	425.6	397.3	377.8	364.7
10°	806.2	773.9	687.1	591.9	492.3	404.5	331.3	275.6	232.6	219.0	219.5
12.5°	796.6	753.6	640.4	516.6	393.1	282.4	204.7	160.7	140.1	133.4	132.0
15°	787.8	734.2	594.5	443.6	292.7	183.0	132.0	116.5	110.9	109.7	109.5
17.5°	783.1	716.2	545.6	360.1	204.2	124.2	105.8	101.5	99.9	98.7	98.3
20°	779.1	700.5	498.8	281.9	139.7	101.8	94.8	90.8	88.0	86.8	86.1
22.5°	776.3	684.3	450.4	218.3	106.9	90.3	84.0	78.8	74.9	73.5	72.5
25°	772.1	666.6	401.5	159.6	90.1	80.2	73.0	66.9	61.8	59.2	58.7
27.5°	766.0	646.4	347.9	118.2	80.5	71.4	62.5	55.0	49.8	47.0	47.3
30°	756.2	625.4	294.3	93.8	72.8	62.2	52.6	45.4	40.5	38.4	38.1
32.5°	744.5	599.9	245.2	80.5	65.7	54.0	44.0	37.7	33.9	32.3	32.1
35°	733.5	574.1	195.1	72.3	58.5	46.6	37.0	31.6	28.8	27.4	27.6
37.5°	727.4	551.2	152.1	65.7	52.6	40.0	31.8	27.1	24.6	23.4	23.2
40°	731.4	532.5	121.0	59.9	46.1	34.4	27.4	23.4	20.8	19.2	19.2
42.5°	750.1	524.3	97.6	54.3	40.0	29.7	23.9	20.1	17.3	15.7	15.9
45°	807.2	533.0	81.7	49.1	34.4	25.7	20.6	16.6	14.0	12.9	12.6
47.5°	901.9	565.5	70.7	43.8	29.5	22.0	17.3	13.8	11.2	10.3	10.1
50°	1067.6	632.6	62.5	38.4	25.0	18.7	14.3	11.0	8.9	8.0	8.0
52.5°	1295.5	779.1	56.6	32.3	21.1	15.9	11.7	8.9	7.0	6.3	6.1
55°	1533.6	933.5	53.6	27.1	17.5	13.1	9.4	7.0	5.4	4.7	4.4
57.5°	1762.7	1054.7	50.1	22.0	14.0	10.1	7.3	5.4	3.7	3.3	3.0
60°	1982.4	1152.7	42.6	17.5	11.0	7.3	5.4	3.7	2.6	2.1	2.1
62.5°	2178.9	1209.8	33.5	14.0	8.4	5.1	3.5	2.8	1.9	1.4	1.4
65°	2201.8	1135.7	25.3	10.8	6.1	3.3	2.1	2.1	1.4	0.9	0.9
66°	2155.7	1072.7	22.2	9.8	5.4	2.8	1.9	1.6	1.2	0.7	0.7
67.5°	2052.8	965.3	19.2	8.4	4.4	2.1	1.4	1.4	0.9	0.5	0.5
70°	1773.7	788.5	15.2	6.3	3.3	1.6	0.9	0.9	0.7	0.5	0.5
72.5°	1351.8	588.6	12.4	4.7	2.3	1.2	0.7	0.7	0.7	0.5	0.5
75°	815.4	317.0	9.6	3.5	2.1	0.9	0.5	0.7	0.9	0.7	0.5
77.5°	300.4	107.9	7.5	2.8	1.6	0.9	0.5	0.5	0.9	0.7	0.7
80°	73.7	28.1	5.4	2.3	1.6	0.9	0.5	0.5	0.9	0.9	0.9
82.5°	34.2	11.9	3.7	2.1	1.6	0.9	0.5	0.5	0.7	0.9	0.9
85°	19.7	5.6	3.0	2.3	1.6	0.9	0.5	0.5	0.7	0.9	0.9
87.5°	8.0	2.8	2.8	2.3	1.9	1.2	0.5	0.5	0.5	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)